

Welcome to a New Wave in Walking Jackup Innovation

WaveWalker 1

A Fugro Seacore / Van Oord Company

The innovative large walking jackup barge, WaveWalker 1, has been developed by Fugro and Van Oord to move and operate in rough seas, surf zones, beaches and other intertidal locations.

A 50:50 joint venture company, WaveWalker BV, is registered in The Netherlands and the two companies have worked together to design, construct and operate WaveWalker 1.

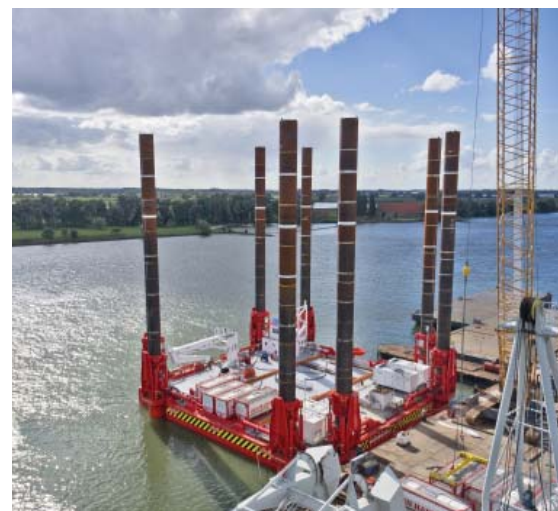
Versatile jack-up

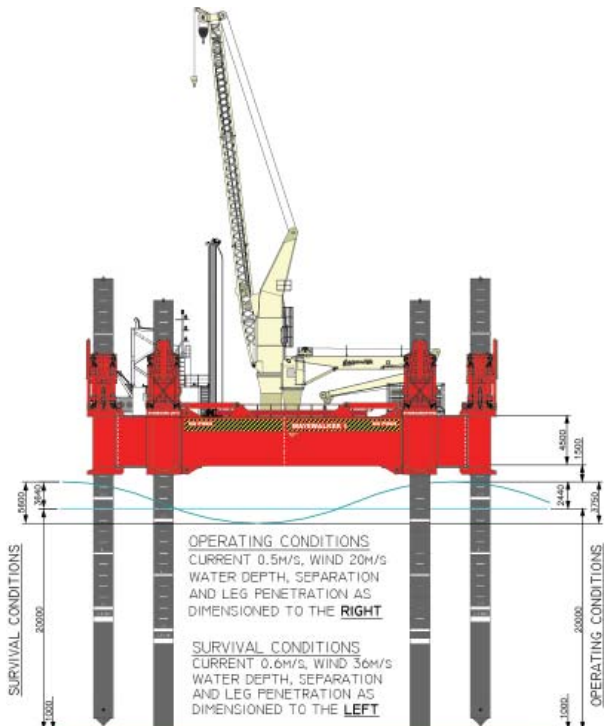
WaveWalker 1 is an innovative jackup which can be operated in conventional 4-legged mode or as an 8-legged, self-contained walking jackup platform, capable of safely operating and bi directional movement whilst elevated allowing the jackup to move and relocate without floating.

This versatile jackup can move and operate in rough seas, strong currents or on beaches and other intertidal locations. This considerably boosts the productivity of a variety of traditional jackup operations, such as geotechnical site investigation, drilling, trenching, pipeline & cable laying, blasting and other marine and underwater work. It has a rapid deck elevating system to provide maximum stability for the 32 m x 32 m deck area.

The development of the walking jackup concept has been thoroughly tested over 14 years by Fugro Seacore in heavy seas, surf and high winds, and used successfully in activities such as installing pipelines through surf zones, excavating trenches, Geotechnical drilling and drilling and blasting. These are all areas where floating equipment or conventional jackups would experience extensive delays due to weather down time, as well as the obvious safety implications of operating floating equipment in nearshore, large swell locations.

The jackup is also of sufficient size to support construction operations as well as live aboard, thus dramatically increasing operational productivity and reducing crew change downtime periods.





Wavewalker 1 has 8 no. independently jackable legs. Each of these is carried in a leg bearing unit, which slides on bull rails built into the hull structure. Once on location, 4 legs on two opposite hull sides are lowered to seabed and the rig is jacked up in the conventional manner. The other 4 legs in raised position are then slid to the end of the walking stroke by the walking cylinders. These legs are then lowered to the seabed and weight transferred to them.

The initial 4 jacklegs are then retracted clear of the seabed and the walking cylinders driven to the extent of their stroke, causing the hull to slide 4 m in the required direction. The raised legs are then lowered to the seabed and weight transferred to them. Finally, the unloaded legs are jacked up clear of the seabed and reset to the start position. In this way a 4 m "walk" is completed and the cycle can be repeated if required – overall walking speeds of up to 40 m per hour are achievable (bi-directionally).

Vessel Data

- Hull Dimensions - 32 m x 32 m x 4.5 m
- Max. Displacement - 2400 t (includes payload)
- Payload (8 leg walking mode) - 400 t
- Payload (4 leg conventional jackup) - 850 t
- Deck load - 8 t/m²
- No. of legs - 8 - Dimensions - 1.80 m diameter x 4 0 m long
- Maximum Separation - 25 m
- Jacking System - FSCL Gripper System
- Moonpool 17 m x 9 m (Covered if required)
- Craneage
 - Lagendijk LWC900 Offshore Wire crane
 - 100 t @ 6 m Operating Radius
 - Lagendijk LKB 13.0/20.0-10.0 Knuckle Boom crane
 - 10 t @ 4 m Operating Radius
 - Both cranes suitable for manriding
- (Optional) Accommodation - 24 POB
- Classification - Germanischer Lloyd

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